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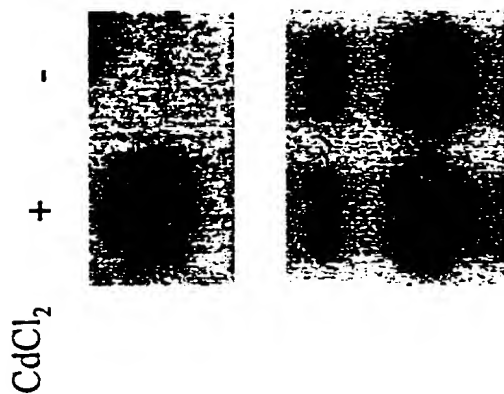
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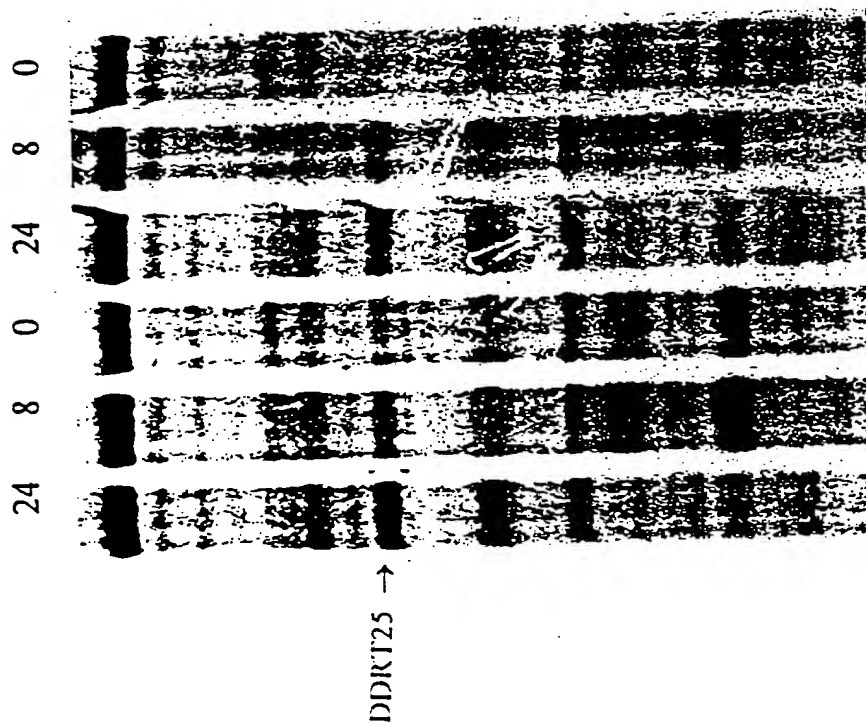
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Figure 1

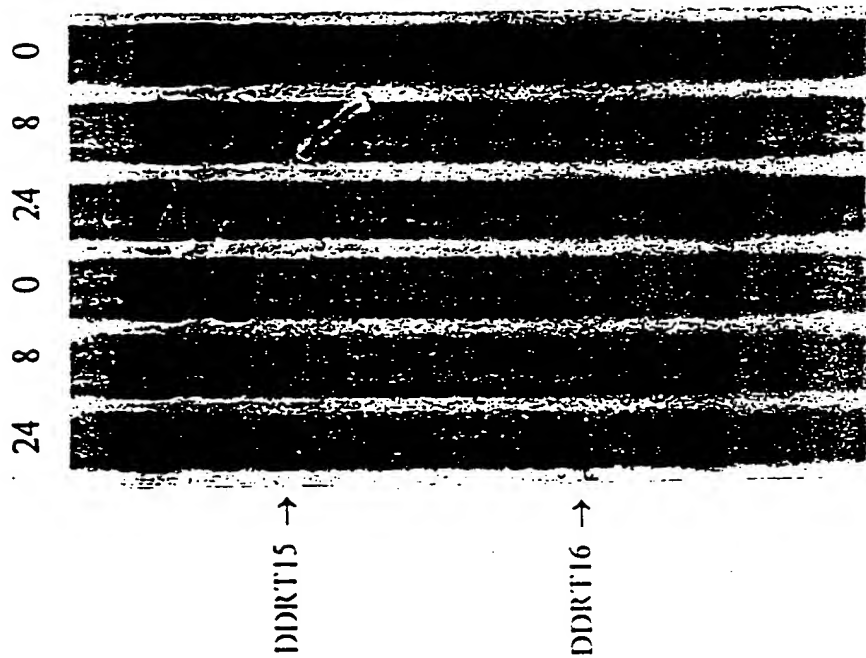


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05/12/2000

A

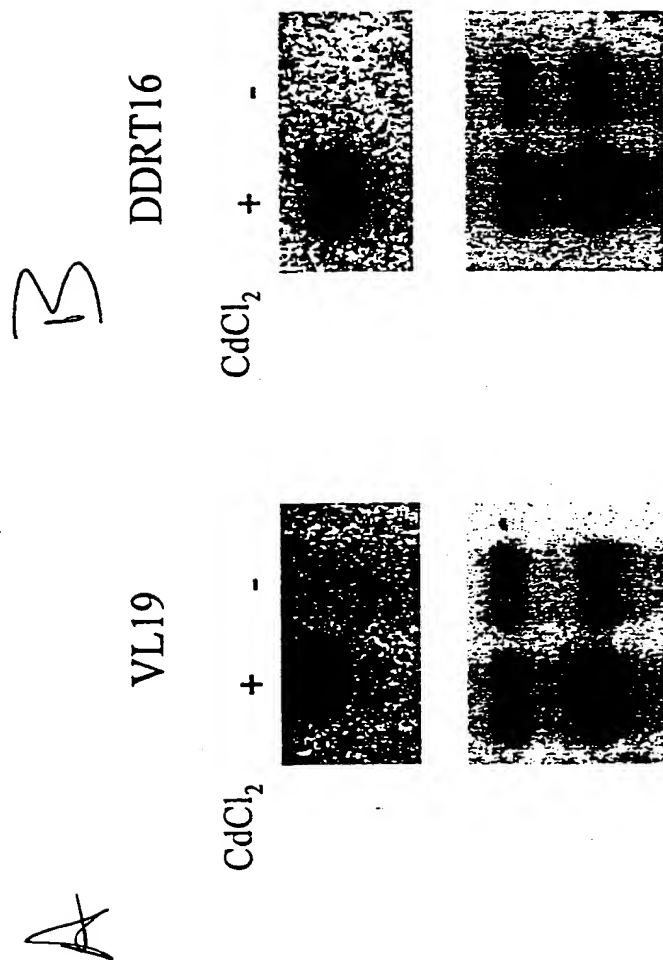


B



F.12

Figure 3



660711-054460

A

	1	2	3	4	5	6	7	8
A	●	●	●		●			●
B	●		●		●			
C	●		●		●	●		
D			●	●	●	●	●	●
E	●	●			●	●	●	
F				●	●			●

B

	1	2	3	4	5	6	7	8
A	●	●	●	●	●	●	●	●
B	●	●	●	●	●	●	●	●
C	●	●	●	●	●	●	●	●
D	●	●	●	●	●	●	●	●
E	●	●	●	●	●	●	●	●
F			●	●	●			●

C

	1	2	3	4	5	6	7	8
A	●	●	●	●	●	●	●	●
B	●	●	●	●	●	●	●	●
C	●	●	●	●	●	●	●	●
D	●	●		●	●	●	●	●
E	●	●	●	●	●	●	●	●
F			●	●	●	●		●

F. 4

Figure 4

Figure 5

LOCUS AF072438 284 bp mRNA EST 06-JUL-1998
DEFINITION AF072438 mRNA from cadmium-responsive gene *Caenorhabditis elegans*
cDNA clone DDRT21, mRNA sequence.

ACCESSION AF072438

NID g3288944

KEYWORDS EST.

SOURCE *Caenorhabditis elegans*.

ORGANISM *Caenorhabditis elegans*

Eukaryota; Metazoa; Nematoda; Secernentea; Rhabditia; Rhabditida;
Rhabditina; Rhabditoidea; Rhabditidae; Peloderinae; *Caenorhabditis*.

REFERENCE 1 (bases 1 to 284)

AUTHORS Freedman, J.H. and Liao, H.-C.

TITLE Cadmium-Regulated Genes from the Nematode *Caenorhabditis elegans*.
Identification and cloning of new cadmium-responsive genes by
differential display

JOURNAL Unpublished (1998)

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FEATURES Location/Qualifiers

source 1..284
/organism="Caenorhabditis elegans"
/strain="N2"
/db_xref="taxon:6239"
/clone="DDRT21"
/clone_lib="mRNA from cadmium-responsive gene"
/tissue_type="whole animal"
/dev_stage="mixed population"

BASE COUNT 88 a 61 c 54 g 81 t

ORIGIN

1 tggctactcca cacggacaaa tacatttagt ttacaagcc gccacgcgac acgcaacggc
61 cgtaaatcta cccaaggtac aacaacaaca tgtcaagcac agaccatata cttattgtg
121 cggaaggatg gcctctactg tagtaatcga caattggact cttatccacc ggatcactta
181 acctatttg atattaatat gcctgattgg ggatcacagg gttgcccgaa aaatgtaatt
241 atgaactgaa ttcgaaatgt attataaat tagttttat tggg

//

LOCUS AF072437 214 bp mRNA EST 06-JUL-1998
DEFINITION AF072437 mRNA from cadmium-responsive gene *Caenorhabditis elegans*
cDNA clone VL8, mRNA sequence.

ACCESSION AF072437

NID g3288943

KEYWORDS EST.

SOURCE *Caenorhabditis elegans*.

ORGANISM *Caenorhabditis elegans*

Eukaryota; Metazoa; Nematoda; Secernentea; Rhabditia; Rhabditida;
Rhabditina; Rhabditoidea; Rhabditidae; Peloderinae; *Caenorhabditis*.

REFERENCE 1 (bases 1 to 214)

AUTHORS Freedman, J.H. and Liao, H.-C.

TITLE Cadmium-Regulated Genes from the Nematode *Caenorhabditis elegans*.
Identification and cloning of new cadmium-responsive genes by

09437450 111099

differential display
 JOURNAL Unpublished (1998)
 COMMENT
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FEATURES Location/Qualifiers
 source 1..214
 /organism="Caenorhabditis elegans"
 /strain="N2"
 /db_xref="taxon:6239"
 /clone="VL8"
 /clone_lib="mRNA from cadmium-responsive gene"
 /tissue_type="whole animal"
 /dev_stage="mixed population"

BASE COUNT 68 a 37 c 66 g 43 t

ORIGIN

1 gcaagtgcgg agacaaatgt gaatgcagtg gagacaagtg ttgtgagaag tactgctgtg
 61 aggaggccag tgagaaaaaa tgctgtccag ctggatgtaa gggagactgc aagtgtgcaa
 121 actgtcattg tcagagcag aagcagtgcg agacaagacc catcaacacc aggggaactgc
 181 tgcggctcat taaatgttt cagagtgaa tcta

//

LOCUS AF072436 217 bp mRNA EST 06-JUL-1998
 DEFINITION AF072436 mRNA from cadmium-responsive gene *Caenorhabditis elegans*
 cDNA clone VL7, mRNA sequence.

ACCESSION AF072436

NID g3288942

KEYWORDS EST.

SOURCE *Caenorhabditis elegans*.

ORGANISM *Caenorhabditis elegans*

Eukaryota; Metazoa; Nematoda; Secernentea; Rhabditia; Rhabditida;
 Rhabditina; Rhabditoidea; Rhabditidae; Peloderinae; *Caenorhabditis*.

REFERENCE 1 (bases 1 to 217)

AUTHORS Freedman, J.H. and Liao, H.-C.

TITLE Cadmium-Regulated Genes from the Nematode *Caenorhabditis elegans*.
 Identification and cloning of new cadmium-responsive genes by
 differential display

JOURNAL Unpublished (1998)

COMMENT

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FEATURES Location/Qualifiers
 source 1..217
 /organism="Caenorhabditis elegans"
 /strain="N2"
 /db_xref="taxon:6239"
 /clone="VL7"
 /clone_lib="mRNA from cadmium-responsive gene"

0542450 "111099"

/tissue_type="whole animal"
/dev_stage="mixed population"

BASE COUNT 69 a 37 c 66 g 45 t

ORIGIN

1 ttagcaagt cggagacaaa tgtgaatgca gtggagacaa gtgtgtgag aagtactgct
61 gtgaggaggc cagtgagaaa aaatgctgtc cagctggatg taaggagac tgcaagtgtg
121 caaactgtca ttgtgcagag cagaagcagt gcgagacaag acccatcaac accagggaac
181 tgctgcggt cattaaaatg tttagagtt gaatcta

//

LOCUS AF072435 217 bp mRNA EST 06-JUL-1998
DEFINITION AF072435 mRNA from cadmium-responsive gene *Caenorhabditis elegans*
cDNA clone VL15, mRNA sequence.

ACCESSION AF072435

NID g3288941

KEYWORDS EST.

SOURCE *Caenorhabditis elegans*.

ORGANISM *Caenorhabditis elegans*

Eukaryota; Metazoa; Nematoda; Secernentea; Rhabditia; Rhabditida;
Rhabditina; Rhabditoidea; Rhabditidae; Peloderinae; *Caenorhabditis*.

REFERENCE 1 (bases 1 to 217)

AUTHORS Freedman, J.H. and Liao, H.-C.

TITLE Cadmium-Regulated Genes from the Nematode *Caenorhabditis elegans*.
Identification and cloning of new cadmium-responsive genes by
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JOURNAL Unpublished (1998)

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FEATURES Location/Qualifiers

source 1..217
/organism="Caenorhabditis elegans"
/strain="N2"
/db_xref="taxon:6239"
/clone="VL15"
/clone_lib="mRNA from cadmium-responsive gene"
/tissue_type="whole animal"
/dev_stage="mixed population"

BASE COUNT 69 a 37 c 66 g 45 t

ORIGIN

1 ttagcaagt cggagacaaa tgtgaatgca gtggagacaa gtgtgtgag aagtactgct
61 gtgaggaggc cagtgagaaa aaatgctgtc cagctggatg taaggagac tgcaagtgtg
121 caaactgtca ttgtgcagag cagaagcagt gcgagacaag acccatcaac accagggaac
181 tgctgcggt cattaaaatg tttagagtt gaatcta

//

LOCUS AF072434 216 bp mRNA EST 06-JUL-1998
DEFINITION AF072434 mRNA from cadmium-responsive gene *Caenorhabditis elegans*
cDNA clone VL12, mRNA sequence.

ACCESSION AF072434

NID g3288940

0947450-11099

KEYWORDS EST.

SOURCE *Caenorhabditis elegans*.ORGANISM *Caenorhabditis elegans*Eukaryota; Metazoa; Nematoda; Secernentea; Rhabditia; Rhabditida;
Rhabditina; Rhabditoidea; Rhabditidae; Peloderinae; *Caenorhabditis*.

REFERENCE 1 (bases 1 to 216)

AUTHORS Freedman, J.H. and Liao, H.-C.

TITLE Cadmium-Regulated Genes from the Nematode *Caenorhabditis elegans*.
Identification and cloning of new cadmium-responsive genes by
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JOURNAL Unpublished (1998)

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FEATURES Location/Qualifiers

source 1..216
 /organism="Caenorhabditis elegans"
 /strain="N2"
 /db_xref="taxon:6239"
 /clone="VL12"
 /clone_lib="mRNA from cadmium-responsive gene"
 /tissue_type="whole animal"
 /dev_stage="mixed population"

BASE COUNT 69 a 37 c 66 g 44 t

ORIGIN

1 tagcaagtgc ggagacaaat gtgaatgcag tggagacaag tgtgtgaga agtactgctg
 61 tggaggaggcc agtgagaaaa aatgctgtcc agctggatgt aaggaggact gcaagtgtgc
 121 aaactgtcat tgtgcagagc agaagcagtg cgagacaaga cccatcaaca ccagggaact
 181 gctgcggctc attaaaaatgt ttcagagtgc aatcta

//

LOCUS AF071399 240 bp mRNA EST 01-JUL-1998

DEFINITION AF071399 mRNA from cadmium-responsive gene *Caenorhabditis elegans*
cDNA clone DDRT9A, mRNA sequence.

ACCESSION AF071399

NID g3265144

KEYWORDS EST.

SOURCE *Caenorhabditis elegans*.ORGANISM *Caenorhabditis elegans*Eukaryota; Metazoa; Nematoda; Secernentea; Rhabditia; Rhabditida;
Rhabditina; Rhabditoidea; Rhabditidae; Peloderinae; *Caenorhabditis*.

REFERENCE 1 (bases 1 to 240)

AUTHORS Freedman, J.H. and Liao, H.-C.

TITLE Cadmium-Regulated Genes from the Nematode *Caenorhabditis elegans*.
Identification and cloning of new cadmium-responsive genes by
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JOURNAL Unpublished (1998)

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FEATURES Location/Qualifiers
source 1..240
 /organism="Caenorhabditis elegans"
 /strain="N2"
 /db_xref="taxon:6239"
 /clone="DDRT9A"
 /clone_lib="mRNA from cadmium-responsive gene"
 /tissue_type="whole animal"
 /dev_stage="mixed population"

BASE COUNT 81 a 28 c 41 g 90 t

ORIGIN

1 tttttttt ttgagactat gaatatttaa ttagcaagc gaattgttg ttattagata
61 ggaagcctag aagagtgaag atttaaaaa atgtgaggaa ctggtttgt atcagaagc
121 atataaacgt tgtcttaatt tatatatgac gttcttatg aatatagcca aaatgacga
181 tattttaat ccaaaaatca aacattttg gtatacgaac ctgccttca cggagggtta

//

LOCUS AF071398 217 bp mRNA EST 01-JUL-1998
DEFINITION AF071398 mRNA from cadmium-responsive gene *Caenorhabditis elegans*
 cDNA clone DDRT7, mRNA sequence.

ACCESSION AF071398

NID g3265143

KEYWORDS EST.

SOURCE *Caenorhabditis elegans*.

ORGANISM *Caenorhabditis elegans*

Eukaryota; Metazoa; Nematoda; Secernentea; Rhabditia; Rhabditida;
Rhabditina; Rhabditoidea; Rhabditidae; Peloderinae; *Caenorhabditis*.

REFERENCE 1 (bases 1 to 217)

AUTHORS Freedman, J.H. and Liao, H.-C.

TITLE Cadmium-Regulated Genes from the Nematode *Caenorhabditis elegans*.
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FEATURES Location/Qualifiers
source 1..217
 /organism="Caenorhabditis elegans"
 /strain="N2"
 /db_xref="taxon:6239"
 /clone="DDRT7"
 /clone_lib="mRNA from cadmium-responsive gene"
 /tissue_type="whole animal"
 /dev_stage="mixed population"

BASE COUNT 64 a 38 c 42 g 73 t

ORIGIN

1 tttttttt tttgggagg aaatcacggc ggcgatcga acagtcttct ctcaattggc
61 aactgtctat atcattccgc aatcacatt cggtgttct cgaaggga ttccaaagt

09437450.1.1099

121 attggagtca tgtgaaagag ttgctcatga agtttaccga aaggcatttc atagtgaatt
 181 aaattgtcaa actagtagtc agatcaataa aattttc

//

LOCUS AF071397 219 bp mRNA EST 01-JUL-1998
 DEFINITION AF071397 mRNA from cadmium-responsive gene *Caenorhabditis elegans*
 cDNA clone DDRT6, mRNA sequence.

ACCESSION AF071397

NID g3265142

KEYWORDS EST.

SOURCE *Caenorhabditis elegans*.

ORGANISM *Caenorhabditis elegans*

Eukaryota; Metazoa; Nematoda; Secernentea; Rhabditia; Rhabditida;
 Rhabditina; Rhabditoidea; Rhabditidae; Peloderinae; *Caenorhabditis*.

REFERENCE 1 (bases 1 to 219)

AUTHORS Freedman, J.H. and Liao, H.-C.

TITLE Cadmium-Regulated Genes from the Nematode *Caenorhabditis elegans*.
 Identification and cloning of new cadmium-responsive genes by
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JOURNAL Unpublished (1998)

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FEATURES Location/Qualifiers

source 1..219
 /organism="Caenorhabditis elegans"
 /strain="N2"
 /db_xref="taxon:6239"
 /clone="DDRT6"
 /clone_lib="mRNA from cadmium-responsive gene"
 /tissue_type="whole animal"
 /dev_stage="mixed population"

BASE COUNT 75 a 38 c 34 g 72 t

ORIGIN

1 tttttttt ttgacgaca aattattag aaatttgca taagcgaaaa tacaattga
 61 cccgtagcaa aaaaatacat gtcgggaaaa tgagaaaaat ggtaataaa ttttaaaaa
 121 aagtataaa ttctccaac aagctactgc atgtcctgt actacaatct tctcgacgg
 181 attcactct cgatcgcgga ttcggattct tcatgttgg

//

LOCUS AF071396 254 bp mRNA EST 01-JUL-1998
 DEFINITION AF071396 mRNA from cadmium-responsive gene *Caenorhabditis elegans*
 cDNA clone DDRT5, mRNA sequence.

ACCESSION AF071396

NID g3265141

KEYWORDS EST.

SOURCE *Caenorhabditis elegans*.

ORGANISM *Caenorhabditis elegans*

Eukaryota; Metazoa; Nematoda; Secernentea; Rhabditia; Rhabditida;
 Rhabditina; Rhabditoidea; Rhabditidae; Peloderinae; *Caenorhabditis*.

REFERENCE 1 (bases 1 to 254)

09437450-11099

AUTHORS Freedman,J.H. and Liao,H.-C.
 TITLE Cadmium-Regulated Genes from the Nematode *Caenorhabditis elegans*.
 Identification and cloning of new cadmium-responsive genes by
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JOURNAL Unpublished (1998)

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FEATURES Location/Qualifiers

source 1..254
 /organism="Caenorhabditis elegans"
 /strain="N2"
 /db_xref="taxon:6239"
 /clone="DDRT5"
 /clone_lib="mRNA from cadmium-responsive gene"
 /tissue_type="whole animal"
 /dev_stage="mixed population"

BASE COUNT 79 a 43 c 50 g 82 t

ORIGIN

1 tttttttt ttttgccca tcggaaaata gcaagcctct ccacaggtac agtaattgag
 61 catttgatg atgcttctc acagcattat ccagtgtata ctatccttt ttcgtaagag
 121 ttgcgaaaa atgtccataa aaagtgttga atgactttg ttcatctcga agcatacata
 181 cgatcgaaac ggagaaatcg atagatcgaa tcaggataag tggggatact gtattgtcgg
 241 atgaaaacat agac

//

LOCUS AF071394 165 bp mRNA EST 01-JUL-1998
 DEFINITION AF071394 mRNA from cadmium-responsive gene *Caenorhabditis elegans*
 cDNA clone DDRT47, mRNA sequence.

ACCESSION AF071394

NID g3265139

KEYWORDS EST.

SOURCE *Caenorhabditis elegans*.

ORGANISM *Caenorhabditis elegans*

Eukaryota; Metazoa; Nematoda; Secernentea; Rhabditia; Rhabditida;
 Rhabditina; Rhabditoidea; Rhabditidae; Peloderinae; *Caenorhabditis*.

REFERENCE 1 (bases 1 to 165)

AUTHORS Freedman,J.H. and Liao,H.-C.

TITLE Cadmium-Regulated Genes from the Nematode *Caenorhabditis elegans*.
 Identification and cloning of new cadmium-responsive genes by
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JOURNAL Unpublished (1998)

COMMENT

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FEATURES Location/Qualifiers

source 1..165
 /organism="Caenorhabditis elegans"

03437450.11099

/strain="N2"
 /db_xref="taxon:6239"
 /clone="DDRT47"
 /clone_lib="mRNA from cadmium-responsive gene"
 /tissue_type="whole animal"
 /dev_stage="mixed population"

BASE COUNT 38 a 37 c 20 g 70 t

ORIGIN

1 tttttttt tttccaacc ccttcacata ataggcggaa aaccgattgt tgctgttact
 61 tgtgtgtgtg ttattccct gacctatcca tattcccttc ttccaatct ctaaagatat
 121 acctgaaaac gagtttttg aatacttgat acattgtct tcac

//

LOCUS AF071393 154 bp mRNA EST 01-JUL-1998

DEFINITION AF071393 mRNA from cadmium-responsive gene *Caenorhabditis elegans*
 cDNA clone DDRT41, mRNA sequence.

ACCESSION AF071393

NID g3265138

KEYWORDS EST.

SOURCE *Caenorhabditis elegans*.

ORGANISM *Caenorhabditis elegans*

Eukaryota; Metazoa; Nematoda; Secernentea; Rhabditia; Rhabditida;
 Rhabditina; Rhabditoidea; Rhabditidae; Peloderinae; *Caenorhabditis*.

REFERENCE 1 (bases 1 to 154)

AUTHORS Freedman, J.H. and Liao, H.-C.

TITLE Cadmium-Regulated Genes from the Nematode *Caenorhabditis elegans*.
 Identification and cloning of new cadmium-responsive genes by
 differential display

JOURNAL Unpublished (1998)

COMMENT

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FEATURES Location/Qualifiers

source 1..154

/organism="Caenorhabditis elegans"
 /strain="N2"
 /db_xref="taxon:6239"
 /clone="DDRT41"
 /clone_lib="mRNA from cadmium-responsive gene"
 /tissue_type="whole animal"
 /dev_stage="mixed population"

BASE COUNT 49 a 27 c 40 g 38 t

ORIGIN

1 tggattgtgc ggggtgtact gccagtctg gtcgtgatag aaaacatcag gcgatcatgc
 61 ctttacgtgg taagatcctg aacgtcgaaa agcaatggaa cataagatct acgaaaatga
 121 ggagatcaaa aacatgttta cagcttgggt ccta

//

LOCUS AF071392 264 bp mRNA EST 01-JUL-1998

DEFINITION AF071392 mRNA from cadmium-responsive gene *Caenorhabditis elegans*
 cDNA clone DDRT40, mRNA sequence.

09437450.1.1099

ACCESSION AF071392

NID g3265137

KEYWORDS EST.

SOURCE Caenorhabditis elegans.

ORGANISM Caenorhabditis elegans

Eukaryota; Metazoa; Nematoda; Secernentea; Rhabditia; Rhabditida;
Rhabditina; Rhabditoidea; Rhabditidae; Peloderinae; Caenorhabditis.

REFERENCE 1 (bases 1 to 264)

AUTHORS Freedman, J.H. and Liao, H.-C.

TITLE Cadmium-Regulated Genes from the Nematode Caenorhabditis elegans.
Identification and cloning of new cadmium-responsive genes by
differential display

JOURNAL Unpublished (1998)

COMMENT

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Email: jonf@duke.edu.

FEATURES Location/Qualifiers

source 1..264
/organism="Caenorhabditis elegans"
/strain="N2"
/db_xref="taxon:6239"
/clone="DDRT40"
/clone_lib="mRNA from cadmium-responsive gene"
/tissue_type="whole animal"
/dev_stage="mixed population"

BASE COUNT 90 a 47 c 59 g 68 t

ORIGIN

1 tggattgtgc ggagtataag caaaaatttc tggaaaagtc gggatgatg aagtttgata
61 agatcttcaa tcaaaagctc ggtttcttgt tgttaaaga ttccgcagga aaatgtctcc
121 gagagtcctg gtccctcaat taaattctac gaggcgatca aagaatacga gaaaatggag
181 acaccagatg agcgattaac aaaagcacga gaaatttatc gatcatcata tacggttgaa
241 ttccgtcgcg caatcgtcac actc

//

LOCUS AF071391 187 bp mRNA EST 01-JUL-1998

DEFINITION AF071391 mRNA from cadmium-responsive gene Caenorhabditis elegans
cDNA clone DDRT4, mRNA sequence.

ACCESSION AF071391

NID g3265136

KEYWORDS EST.

SOURCE Caenorhabditis elegans.

ORGANISM Caenorhabditis elegans

Eukaryota; Metazoa; Nematoda; Secernentea; Rhabditia; Rhabditida;
Rhabditina; Rhabditoidea; Rhabditidae; Peloderinae; Caenorhabditis.

REFERENCE 1 (bases 1 to 187)

AUTHORS Freedman, J.H. and Liao, H.-C.

TITLE Cadmium-Regulated Genes from the Nematode Caenorhabditis elegans.
Identification and cloning of new cadmium-responsive genes by
differential display

JOURNAL Unpublished (1998)

COMMENT

004450.111099

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FEATURES Location/Qualifiers
 source 1..187
 /organism="Caenorhabditis elegans"
 /strain="N2"
 /db_xref="taxon:6239"
 /clone="DDRT4"
 /clone_lib="mRNA from cadmium-responsive gene"
 /tissue_type="whole animal"
 /dev_stage="mixed population"

BASE COUNT 57 a 22 c 41 g 67 t

ORIGIN

1 aaattttat taaataaaa taaacatggt ttgttgata ttatagcgtt aaagctgaaa
 61 tgacaatgat tagaaaacca gcagagaata gagatgatgt tccttcggt gttgttcca
 121 gtaacactt gttgcggtgg agcccgatt tagcgagtgg tagttttga tgtgattggt
 181 tccaatc

//

LOCUS AF071389 267 bp mRNA EST 01-JUL-1998
 DEFINITION AF071389 mRNA from cadmium-responsive gene *Caenorhabditis elegans*
 cDNA clone DDRT37, mRNA sequence.

ACCESSION AF071389

NID g3265134

KEYWORDS EST.

SOURCE *Caenorhabditis elegans*.

ORGANISM *Caenorhabditis elegans*

Eukaryota; Metazoa; Nematoda; Secernentea; Rhabditia; Rhabditida;
 Rhabditina; Rhabditoidea; Rhabditidae; Peloderinae; *Caenorhabditis*.

REFERENCE 1 (bases 1 to 267)

AUTHORS Freedman, J.H. and Liao, H.-C.

TITLE Cadmium-Regulated Genes from the Nematode *Caenorhabditis elegans*.
 Identification and cloning of new cadmium-responsive genes by
 differential display

JOURNAL Unpublished (1998)

COMMENT

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FEATURES Location/Qualifiers
 source 1..267
 /organism="Caenorhabditis elegans"
 /strain="N2"
 /db_xref="taxon:6239"
 /clone="DDRT37"
 /clone_lib="mRNA from cadmium-responsive gene"
 /tissue_type="whole animal"
 /dev_stage="mixed population"

BASE COUNT 66 a 75 c 54 g 72 t

09437450.1.1099

ORIGIN

1 ttgtactcca cctacaagtt ctacaagttc tacgagggtg tctgatcga tccattccac
 61 aaggctatcc gtcgtaaccc agacacccaa tggatcacca agcctagttc acaagcaccg
 121 tgagcaaaga ggactcacct ctgctggacg caagttcgtg gactcggaaa gggattgctt
 181 ttcttgcta cccgcggagg atcccaacac caaagttttt ccacccgcca accgataaat
 241 ctgttattt tatttggtt tgggttt

//

LOCUS AF071388 292 bp mRNA EST 01-JUL-1998
 DEFINITION AF071388 mRNA from cadmium-responsive gene *Caenorhabditis elegans*
 cDNA clone DDRT36, mRNA sequence.

ACCESSION AF071388

NID g3265133

KEYWORDS EST.

SOURCE *Caenorhabditis elegans*.ORGANISM *Caenorhabditis elegans*

Eukaryota; Metazoa; Nematoda; Secernentea; Rhabditia; Rhabditida;
 Rhabditina; Rhabditoidea; Rhabditidae; Peloderinae; *Caenorhabditis*.

REFERENCE 1 (bases 1 to 292)

AUTHORS Freedman, J.H. and Liao, H.-C.

TITLE Cadmium-Regulated Genes from the Nematode *Caenorhabditis elegans*.
 Identification and cloning of new cadmium-responsive genes by
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FEATURES Location/Qualifiers

source 1..292
 /organism="Caenorhabditis elegans"
 /strain="N2"
 /db_xref="taxon:6239"
 /clone="DDRT36"
 /clone_lib="mRNA from cadmium-responsive gene"
 /tissue_type="whole animal"
 /dev_stage="mixed population"

BASE COUNT 73 a 57 c 51 g 111 t

ORIGIN

1 tttttttt tttccaac cccctcat aaaggcggaa aaccgattgt tgctgttact
 61 tgtgtgtg gttattccc tgaggtatcc atattccgct tctccaatc tctaaagata
 121 tacctgaaaa cgattgtcg tcgaaatact tgatacatgt tgtcttcac ctggtgtatg
 181 ttgttcgca aattcttcat actagttag ataggatttg aatgagctgg cagagtcaa
 241 cttgaactc gaattcaat atttctgta tctgcatta agtgatgaat aa

//

LOCUS AF071387 314 bp mRNA EST 01-JUL-1998
 DEFINITION AF071387 mRNA from cadmium-responsive gene *Caenorhabditis elegans*
 cDNA clone DDRT35, mRNA sequence.

ACCESSION AF071387

NID g3265132

KEYWORDS EST.

09437450.11099

SOURCE *Caenorhabditis elegans*.

ORGANISM *Caenorhabditis elegans*

Eukaryota; Metazoa; Nematoda; Secernentea; Rhabditia; Rhabditida;
Rhabditina; Rhabditoidea; Rhabditidae; Peloderinae; *Caenorhabditis*.

REFERENCE 1 (bases 1 to 314)

AUTHORS Freedman, J.H. and Liao, H.-C.

TITLE Cadmium-Regulated Genes from the Nematode *Caenorhabditis elegans*.

Identification and cloning of new cadmium-responsive genes by
differential display

JOURNAL Unpublished (1998)

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FEATURES Location/Qualifiers

source 1..314

/organism="Caenorhabditis elegans"

/strain="N2"

/db_xref="taxon:6239"

/clone="DDRT35"

/clone_lib="mRNA from cadmium-responsive gene"

/tissue_type="whole animal"

/dev_stage="mixed population"

BASE COUNT 86 a 65 c 56 g 107 t

ORIGIN

1 tctgagctag gaggtccagg aggaacaac ggaggagggtg ctggaaatgg tggattcgac
61 gatttgatg attggctcg ccgttcgaa gaactgaaa agattaagta atcatcacc
121 gacgtccat tcctattaa ctattgtt ctctccacc caattttt ttcacgtgc
181 tttttgta tcataatga gaccccaaa aactagctgt ttctagtgc atacgttaa
241 accccttag tcattgatta tcattgata cctcattatc cgaaaaacct ttcgacattc
301 atcaactagg tttt

//

LOCUS AF071386 189 bp mRNA EST 01-JUL-1998

DEFINITION AF071386 mRNA from cadmium-responsive gene *Caenorhabditis elegans*
cDNA clone DDRT34, mRNA sequence.

ACCESSION AF071386

NID g3265131

KEYWORDS EST.

SOURCE *Caenorhabditis elegans*.

ORGANISM *Caenorhabditis elegans*

Eukaryota; Metazoa; Nematoda; Secernentea; Rhabditia; Rhabditida;

Rhabditina; Rhabditoidea; Rhabditidae; Peloderinae; *Caenorhabditis*.

REFERENCE 1 (bases 1 to 189)

AUTHORS Freedman, J.H. and Liao, H.-C.

TITLE Cadmium-Regulated Genes from the Nematode *Caenorhabditis elegans*.

Identification and cloning of new cadmium-responsive genes by
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JOURNAL Unpublished (1998)

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FEATURES Location/Qualifiers

source 1..189
/organism="Caenorhabditis elegans"
/strain="N2"
/db_xref="taxon:6239"
/clone="DDRT34"
/clone_lib="mRNA from cadmium-responsive gene"
/tissue_type="whole animal"
/dev_stage="mixed population"

BASE COUNT 61 a 26 c 48 g 54 t

ORIGIN

1 tctgagctag ggaccgaaat tcacaaatat ccaattgta ctggatggtg gggatgtgga
61 cgatttaatg gggacaagcc actgaagtgt atgttatttc attcgtaaa tatgaagatg
121 gaggagagtg aatggggatt ttgctcttt tgcaaaatgg cctccctatg tacctgaaaa
181 aaaaaaaaaa

//

LOCUS AF071385 171 bp mRNA EST 01-JUL-1998
DEFINITION AF071385 mRNA from cadmium-responsive gene *Caenorhabditis elegans*
cDNA clone DDRT33D, mRNA sequence.

ACCESSION AF071385

NID g3265130

KEYWORDS EST.

SOURCE *Caenorhabditis elegans*.

ORGANISM *Caenorhabditis elegans*

Eukaryota; Metazoa; Nematoda; Secernentea; Rhabditia; Rhabditida;
Rhabditina; Rhabditoidea; Rhabditidae; Peloderinae; *Caenorhabditis*.

REFERENCE 1 (bases 1 to 171)

AUTHORS Freedman, J.H. and Liao, H.-C.

TITLE Cadmium-Regulated Genes from the Nematode *Caenorhabditis elegans*.
Identification and cloning of new cadmium-responsive genes by
differential display

JOURNAL Unpublished (1998)

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FEATURES Location/Qualifiers

source 1..171
/organism="Caenorhabditis elegans"
/strain="N2"
/db_xref="taxon:6239"
/clone="DDRT33D"
/clone_lib="mRNA from cadmium-responsive gene"
/tissue_type="whole animal"
/dev_stage="mixed population"

BASE COUNT 57 a 44 c 37 g 33 t

ORIGIN

1 tctgagctag gaaaggacgg agaagatgga gagaacggag ctgctggagc cgctggacca

09437450.11099

61 aaggatctt gcgaccactg cccaccacca cgactcccc aggatattaa ttcactctc
121 tctaatttta gtgaatctca ttctaataaa aagccgcccc aaaaaaaaaa a

//

LOCUS AF071383 289 bp mRNA EST 01-JUL-1998
DEFINITION AF071383 mRNA from cadmium-responsive gene *Caenorhabditis elegans*
cDNA clone DDRT30, mRNA sequence.
ACCESSION AF071383
NID g3265128
KEYWORDS EST.
SOURCE *Caenorhabditis elegans*.
ORGANISM *Caenorhabditis elegans*
Eukaryota; Metazoa; Nematoda; Secernentea; Rhabditia; Rhabditida;
Rhabditina; Rhabditoidea; Rhabditidae; Peloderinae; *Caenorhabditis*.
REFERENCE 1 (bases 1 to 289)
AUTHORS Freedman, J.H. and Liao, H.-C.
TITLE Cadmium-Regulated Genes from the Nematode *Caenorhabditis elegans*.
Identification and cloning of new cadmium-responsive genes by
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JOURNAL Unpublished (1998)
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FEATURES Location/Qualifiers
source 1..289
/organism="Caenorhabditis elegans"
/strain="N2"
/db_xref="taxon:6239"
/clone="DDRT30"
/clone_lib="mRNA from cadmium-responsive gene"
/tissue_type="whole animal"
/dev_stage="mixed population"

BASE COUNT 68 a 64 c 63 g 94 t
ORIGIN

1 tttttttt ttgagcgag cgttattat ttgagtcgag ctgggttga gtcgtcagct
61 gaacatgaag attgacaaag aagacgatca gcagcaacag atgcgcagag tcgcattctt
121 tgcggttgct gtctcaactg cagccgtcat tcaagcatc gtgactctcc caatgatcta
181 ctcttactct tcaatcttc caatccatt tgatcattgg aaaccgagtt ctgtaaaact
241 gtgctcgtga tatgtggtgt cgaagttctc cacaagtcag gtgtaccct

//

LOCUS AF071382 162 bp mRNA EST 01-JUL-1998
DEFINITION AF071382 mRNA from cadmium-responsive gene *Caenorhabditis elegans*
cDNA clone DDRT3, mRNA sequence.
ACCESSION AF071382
NID g3265127
KEYWORDS EST.
SOURCE *Caenorhabditis elegans*.
ORGANISM *Caenorhabditis elegans*
Eukaryota; Metazoa; Nematoda; Secernentea; Rhabditia; Rhabditida;
Rhabditina; Rhabditoidea; Rhabditidae; Peloderinae; *Caenorhabditis*.

09437450-111099

REFERENCE 1 (bases 1 to 162)

AUTHORS Freedman,J.H. and Liao,H.-C.

TITLE Cadmium-Regulated Genes from the Nematode *Caenorhabditis elegans*.
Identification and cloning of new cadmium-responsive genes by
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FEATURES Location/Qualifiers

source 1..162
/organism="Caenorhabditis elegans"
/strain="N2"
/db_xref="taxon:6239"
/clone="DDRT3"
/clone_lib="mRNA from cadmium-responsive gene"
/tissue_type="whole animal"
/dev_stage="mixed population"

BASE COUNT 64 a 31 c 18 g 49 t

ORIGIN

1 ctcaccgca acaagtgttc acgtggaaac aacaacgaaa ggaacatcat ctctatctct
61 gctggttttc taatcattgt catttcagct ttaacgctat aatcaacaaa aacagtttat
121 tttattttaa taaaaattta ttcgtgcaaa aaaaaaaaaa aa
//

LOCUS AF071381 140 bp mRNA EST 01-JUL-1998

DEFINITION AF071381 mRNA from cadmium-responsive gene *Caenorhabditis elegans*
cDNA clone DDRT29, mRNA sequence.

ACCESSION AF071381

NID g3265126

KEYWORDS EST.

SOURCE *Caenorhabditis elegans*.ORGANISM *Caenorhabditis elegans*Eukaryota; Metazoa; Nematoda; Secernentea; Rhabditia; Rhabditida;
Rhabditina; Rhabditoidea; Rhabditidae; Peloderinae; *Caenorhabditis*.

REFERENCE 1 (bases 1 to 140)

AUTHORS Freedman,J.H. and Liao,H.-C.

TITLE Cadmium-Regulated Genes from the Nematode *Caenorhabditis elegans*.
Identification and cloning of new cadmium-responsive genes by
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FEATURES Location/Qualifiers

source 1..140
/organism="Caenorhabditis elegans"
/strain="N2"

09437450.1.1059

/db_xref="taxon:6239"
 /clone="DDRT29"
 /clone_lib="mRNA from cadmium-responsive gene"
 /tissue_type="whole animal"
 /dev_stage="mixed population"

BASE COUNT 52 a 25 c 29 g 34 t

ORIGIN

1 tagggcctgg ttgtgacaat gtgcactaaa atggggcatg aatatcacca gcagagtcca
 61 ctaccctaaa gtgtacttat taagagtcaa ctgtgaagta tatgagacat ttcagttgcc
 121 tgcccaaaaa aaaaaaaaaa

//

LOCUS AF071380 308 bp mRNA EST 01-JUL-1998
 DEFINITION AF071380 mRNA from cadmium-responsive gene *Caenorhabditis elegans*
 cDNA clone DDRT28, mRNA sequence.

ACCESSION AF071380

NID g3265125

KEYWORDS EST.

SOURCE *Caenorhabditis elegans*.

ORGANISM *Caenorhabditis elegans*

Eukaryota; Metazoa; Nematoda; Secernentea; Rhabditia; Rhabditida;
 Rhabditina; Rhabditoidea; Rhabditidae; Peloderinae; *Caenorhabditis*.

REFERENCE 1 (bases 1 to 308)

AUTHORS Freedman, J.H. and Liao, H.-C.

TITLE Cadmium-Regulated Genes from the Nematode *Caenorhabditis elegans*.
 Identification and cloning of new cadmium-responsive genes by
 differential display

JOURNAL Unpublished (1998)

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FEATURES Location/Qualifiers

source 1..308
 /organism="Caenorhabditis elegans"
 /strain="N2"
 /db_xref="taxon:6239"
 /clone="DDRT28"
 /clone_lib="mRNA from cadmium-responsive gene"
 /tissue_type="whole animal"
 /dev_stage="mixed population"

BASE COUNT 88 a 70 c 73 g 77 t

ORIGIN

1 tagttaggca caggatgtac gaggaaattc tactattttc ggggtctacc acgaaatcac
 61 aataaccggg atttttagt ggtcccgca cgttgaccta ctggcgcgtc aggcactccg
 121 ccgcgacatt ccccgacag cctacaatcc acgtgtcaat cgtcagattt gcggatcaat
 181 aatgggtgatg aaagggtggaa atacgtatat ggatcatgtt caaaggcatc aagctgaaca
 241 attcgaagag ttgaatcggc gtcgacactt ttgatccaag accgtaagaa atttgaaagc
 301 tattggtg

//

LOCUS AF071379 238 bp mRNA EST 01-JUL-1998

09437450.111099

DEFINITION AF071379 mRNA from cadmium-responsive gene *Caenorhabditis elegans*
cDNA clone DDRT26, mRNA sequence.

ACCESSION AF071379

NID g3265124

KEYWORDS EST.

SOURCE *Caenorhabditis elegans*.

ORGANISM *Caenorhabditis elegans*

Eukaryota; Metazoa; Nematoda; Secernentea; Rhabditia; Rhabditida;
Rhabditina; Rhabditoidea; Rhabditidae; Peloderinae; *Caenorhabditis*.

REFERENCE 1 (bases 1 to 238)

AUTHORS Freedman, J.H. and Liao, H.-C.

TITLE Cadmium-Regulated Genes from the Nematode *Caenorhabditis elegans*.
Identification and cloning of new cadmium-responsive genes by
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FEATURES Location/Qualifiers

source 1..238
/organism="Caenorhabditis elegans"
/strain="N2"
/db_xref="taxon:6239"
/clone="DDRT26"
/clone_lib="mRNA from cadmium-responsive gene"
/tissue_type="whole animal"
/dev_stage="mixed population"

BASE COUNT 74 a 43 c 44 g 77 t

ORIGIN

1 tttttttt tttggggg gaaatcacgg cttcggatgc aacagtcttc tctcaattgg
61 caactgtcta ttatccattc cgcaatcaca ttccggatgt tctcgaaaag gactcccaa
121 agttattgga gtactgtgaa agagttcgtc atgaagtta cccaaaggac ttactatgt
181 gaattaaatt gtcaactag tagtcagatc aataaaattt tccgcgcgaa aaaaaaaaa
//

LOCUS AF071378 324 bp mRNA EST 01-JUL-1998

DEFINITION AF071378 mRNA from cadmium-responsive gene *Caenorhabditis elegans*
cDNA clone DDRT25A, mRNA sequence.

ACCESSION AF071378

NID g3265123

KEYWORDS EST.

SOURCE *Caenorhabditis elegans*.

ORGANISM *Caenorhabditis elegans*

Eukaryota; Metazoa; Nematoda; Secernentea; Rhabditia; Rhabditida;
Rhabditina; Rhabditoidea; Rhabditidae; Peloderinae; *Caenorhabditis*.

REFERENCE 1 (bases 1 to 324)

AUTHORS Freedman, J.H. and Liao, H.-C.

TITLE Cadmium-Regulated Genes from the Nematode *Caenorhabditis elegans*.
Identification and cloning of new cadmium-responsive genes by
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JOURNAL Unpublished (1998)

094450 1109

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FEATURES Location/Qualifiers

source 1..324
 /organism="Caenorhabditis elegans"
 /strain="N2"
 /db_xref="taxon:6239"
 /clone="DDRT25A"
 /clone_lib="mRNA from cadmium-responsive gene"
 /tissue_type="whole animal"
 /dev_stage="mixed population"

BASE COUNT 102 a 70 c 73 g 79 t

ORIGIN

1 tagttaggca caggatgtac gaggaaattc tactatttc gggctcacc acgaaatcac
 61 aataacccgg atttttagt ggtcccgca cgttgaccta ctggcgcggt caggcactcc
 121 gccgcgacat tcgccgacac gcctacaatc cacgtgtcaa tcgtcagatt tgcggatcaa
 181 taatggtgat gaaaggtgga aatacgtata tggatcatgt tcaaaggcat caagctgaac
 241 aattcgaaga gttgaatcgg cgtcgacaac ttttgatcc aagaccgtaa gaaattgaa
 301 agctattggt gaaaaaaaaa aaaa

//

LOCUS AF071377 272 bp mRNA EST 01-JUL-1998
 DEFINITION AF071377 mRNA from cadmium-responsive gene *Caenorhabditis elegans*
 cDNA clone DDRT24, mRNA sequence.

ACCESSION AF071377

NID g3265122

KEYWORDS EST.

SOURCE *Caenorhabditis elegans*.

ORGANISM *Caenorhabditis elegans*

Eukaryota; Metazoa; Nematoda; Secernentea; Rhabditia; Rhabditida;
 Rhabditina; Rhabditoidea; Rhabditidae; Peloderinae; *Caenorhabditis*.

REFERENCE 1 (bases 1 to 272)

AUTHORS Freedman, J.H. and Liao, H.-C.

TITLE Cadmium-Regulated Genes from the Nematode *Caenorhabditis elegans*.
 Identification and cloning of new cadmium-responsive genes by
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FEATURES Location/Qualifiers

source 1..272
 /organism="Caenorhabditis elegans"
 /strain="N2"
 /db_xref="taxon:6239"
 /clone="DDRT24"
 /clone_lib="mRNA from cadmium-responsive gene"

0943450-11099

/tissue_type="whole animal"
/dev_stage="mixed population"

BASE COUNT 91 a 74 c 51 g 56 t

ORIGIN

1 tgggtactcca cgcagaaaga agaaggatcat ccacaacacc gctactaccg atgacaagaa
61 gcttcaaagc aatttgaaga aactctctgt caccaacatt ccaggaatcg aggaggtaa
121 catgattaag acgatggaac cggtatccac ttcaacaacc caaaagtcta aacctctgt
181 cccagccaat accttctctg tcacaggatc agccgataac aagtcagatc actgaaatgt
241 ctcccaggga atgctgaact ggctcagagtc ct

//

LOCUS AF071395 218 bp rRNA INV 30-JUN-1998
DEFINITION Caenorhabditis elegans strain N2 clone DDRT48, rRNA sequence.

ACCESSION AF071395

NID g3265140

KEYWORDS

SOURCE Caenorhabditis elegans.

ORGANISM Caenorhabditis elegans

Eukaryota; Metazoa; Nematoda; Secernentea; Rhabditia; Rhabditida;

Rhabditina; Rhabditoidea; Rhabditidae; Peloderinae; Caenorhabditis.

REFERENCE 1 (bases 1 to 218)

AUTHORS Freedman, J.H. and Liao, H.-C.

TITLE Cadmium-Regulated Genes from the Nematode Caenorhabditis elegans.

Identification and cloning of new cadmium-responsive genes by
differential display

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 218)

AUTHORS Freedman, J.H. and Liao, H.-C.

TITLE Direct Submission

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FEATURES Location/Qualifiers

source 1..218

/organism="Caenorhabditis elegans"

/strain="N2"

/db_xref="taxon:6239"

/tissue_type="whole animal"

/dev_stage="mixed population"

/note="from cadmium-responsive gene"

/clone="DDRT48"

misc_RNA 1..218

/note="similar to Caenorhabditis elegans rDNA tandem
repeats"

BASE COUNT 58 a 58 c 38 g 64 t

ORIGIN

1 tttttttt tttcgacaag cggggactaa aagcaagctt ttcattccacc gatgatacaa
61 ggcgtttttt gtaccttagg atcgactgac ccacatccaa ctactgttcc acgtggaacc
121 cttctccact tcagtcttca aggatcgaac ttgaatattt gctactacca tacgatctgc
181 actgacggaa agtccagccg agcctacctc atagttaa

//

LOCUS AF071390 238 bp rRNA INV 30-JUN-1998

DEFINITION Caenorhabditis elegans strain N2 clone DDRT38, rRNA sequence.

ACCESSION AF071390

09437450-111099

NID g3265135

KEYWORDS

SOURCE *Caenorhabditis elegans*.

ORGANISM *Caenorhabditis elegans*

Eukaryota; Metazoa; Nematoda; Secernentea; Rhabditia; Rhabditida;
Rhabditina; Rhabditoidea; Rhabditidae; Peloderinae; *Caenorhabditis*.

REFERENCE 1 (bases 1 to 238)

AUTHORS Freedman, J.H. and Liao, H.-C.

TITLE Cadmium-Regulated Genes from the Nematode *Caenorhabditis elegans*.
Identification and cloning of new cadmium-responsive genes by
differential display

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 238)

AUTHORS Freedman, J.H. and Liao, H.-C.

TITLE Direct Submission

JOURNAL Submitted (09-JUN-1998) Nicholas School of the Environment, Duke
University, Box 90328, Durham, NC 27708-0328, USA

FEATURES Location/Qualifiers

source 1..238

/organism="Caenorhabditis elegans"

/strain="N2"

/db_xref="taxon:6239"

/tissue_type="whole animal"

/dev_stage="mixed population"

/note="from cadmium-responsive gene"

/clone="DDRT38"

misc_RNA 1..238

/note="similar to *Caenorhabditis elegans* rDNA tandem
repeats"

BASE COUNT 58 a 50 c 58 g 72 t

ORIGIN

1 tttttttt tttgccggg cgggtgttac aaccggcagg gacgtaatca acgtgagctg
61 atgactcgcg ctactagcg attctcgtt taagggaat aattacaata ccctatcccc
121 gacatggaag aatttcaacg gttaccgat accttcaac acgggaaaac tacccggtg
181 gacaccatta ggactgacag attgaaagtc ttgtcgatt tgggtggttg ttgtgcat
//

LOCUS AF071384 253 bp rRNA INV 30-JUN-1998

DEFINITION *Caenorhabditis elegans* strain N2 clone DDRT32, rRNA sequence.

ACCESSION AF071384

NID g3265129

KEYWORDS

SOURCE *Caenorhabditis elegans*.

ORGANISM *Caenorhabditis elegans*

Eukaryota; Metazoa; Nematoda; Secernentea; Rhabditia; Rhabditida;
Rhabditina; Rhabditoidea; Rhabditidae; Peloderinae; *Caenorhabditis*.

REFERENCE 1 (bases 1 to 253)

AUTHORS Freedman, J.H. and Liao, H.-C.

TITLE Cadmium-Regulated Genes from the Nematode *Caenorhabditis elegans*.
Identification and cloning of new cadmium-responsive genes by
differential display

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 253)

AUTHORS Freedman, J.H. and Liao, H.-C.

09437450-11099

TITLE Direct Submission
JOURNAL Submitted (09-JUN-1998) Nicholas School of the Environment, Duke
University, Box 90328, Durham, NC 27708-0328, USA

FEATURES Location/Qualifiers

source 1..253
/organism="Caenorhabditis elegans"
/strain="N2"
/db_xref="taxon:6239"
/tissue_type="whole animal"
/dev_stage="mixed population"
/note="from cadmium-responsive gene"
/clone="DDRT32"
misc_RNA 1..253
/note="similar to Caenorhabditis elegans rDNA tandem
repeats"

BASE COUNT 45 a 60 c 69 g 79 t

ORIGIN

1 tagggcctgt tgggtgatgc ttgtccggcg cagttctgtc tgcttgatac ttcgggtga
61 tggcggacta gtgattgtgc ttctgcgga ccgtttctgg tgtgtgcttg gacctcggtt
121 ctagtatcct gatcgctcat ctatcaaccg tactgtaacc ggtacgactc agggaatccg
181 actgtctaataaaacagag gtgacagatg gtccttgccg acgttaactg tcactgatt
241 ctccccagtg cac

//

LOCUS AF071376 277 bp rRNA INV 30-JUN-1998
DEFINITION Caenorhabditis elegans strain N2 clone DDRT23, rRNA sequence.

ACCESSION AF071376

NID g3265121

KEYWORDS

SOURCE Caenorhabditis elegans.

ORGANISM Caenorhabditis elegans

Eukaryota; Metazoa; Nematoda; Secernentea; Rhabditia; Rhabditida;
Rhabditina; Rhabditoidea; Rhabditidae; Peloderinae; Caenorhabditis.

REFERENCE 1 (bases 1 to 277)

AUTHORS Freedman,J.H. and Liao,H.-C.

TITLE Cadmium-Regulated Genes from the Nematode Caenorhabditis elegans.
Identification and cloning of new cadmium-responsive genes by
differential display

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 277)

AUTHORS Freedman,J.H. and Liao,H.-C.

TITLE Direct Submission

JOURNAL Submitted (09-JUN-1998) Nicholas School of the Environment, Duke
University, Box 90328, Durham, NC 27708-0328, USA

FEATURES Location/Qualifiers

source 1..277
/organism="Caenorhabditis elegans"
/strain="N2"
/db_xref="taxon:6239"
/tissue_type="whole animal"
/dev_stage="mixed population"
/note="from cadmium-responsive gene"
/clone="DDRT23"

misc_RNA 1..277

0043450.11069

/note="similar to Caenorhabditis elegans rDNA tandem repeats"

BASE COUNT 67 a 59 c 73 g 78 t

ORIGIN

1 tttttttt ttggggggg gcggtgtga caaagggcag ggacgtaac aacgtgagct
61 gatgactcac acttctagc attcctcgtt taagggaata attacaatac ccatcccga
121 catggaagaa tttaacggt ttaccgatac cctttcgca acacgggaaa actcaccgg
181 tccggacacc attaggactg acagattgaa agctctttct cgatttggtg gttggtggtg
241 catggccgtt cttagtgtg ggagtacaa tcactag

//

LOCUS AF071375 216 bp mRNA EST 30-JUN-1998
DEFINITION AF071375 mRNA from cadmium-responsive gene Caenorhabditis elegans
cDNA clone VL5, mRNA sequence.

ACCESSION AF071375

NID g3265120

KEYWORDS EST.

SOURCE Caenorhabditis elegans.

ORGANISM Caenorhabditis elegans

Eukaryota; Metazoa; Nematoda; Secernentea; Rhabditia; Rhabditida;
Rhabditina; Rhabditoidea; Rhabditidae; Peloderinae; Caenorhabditis.

REFERENCE 1 (bases 1 to 216)

AUTHORS Freedman, J.H. and Liao, H.-C.

TITLE Cadmium-Regulated Genes from the Nematode Caenorhabditis elegans.
Identification and cloning of new cadmium-responsive genes by
differential display

JOURNAL Unpublished (1998)

COMMENT

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FEATURES Location/Qualifiers

source 1..216
/organism="Caenorhabditis elegans"
/strain="N2"
/db_xref="taxon:6239"
/clone="VL5"
/clone_lib="mRNA from cadmium-responsive gene"
/tissue_type="whole animal"
/dev_stage="mixed population"

BASE COUNT 69 a 37 c 66 g 44 t

ORIGIN

1 tagcaagtgc ggagacaaat gtgaatgcag tggagacaag tgtgtgaga agtactgctg
61 tgaggaggcc agtgagaaaa aatgctgtcc agctgatgt aaggagact gcaagtgtgc
121 aaactgtcat tgtgcagagc agaagcagtg cgagacaaga cccatcaaca ccagggaact
181 gctgcggctc attaaaatgt ttcagagttg aatcta

//

LOCUS AF071374 356 bp mRNA EST 30-JUN-1998
DEFINITION AF071374 mRNA from cadmium-responsive gene Caenorhabditis elegans
cDNA clone VL9, mRNA sequence.

ACCESSION AF071374

66077-0542460

NID g3265119
 KEYWORDS EST.
 SOURCE Caenorhabditis elegans.
 ORGANISM Caenorhabditis elegans
 Eukaryota; Metazoa; Nematoda; Secernentea; Rhabditia; Rhabditida;
 Rhabditina; Rhabditoidea; Rhabditidae; Peloderinae; Caenorhabditis.
 REFERENCE 1 (bases 1 to 356)
 AUTHORS Freedman, J.H. and Liao, H.-C.
 TITLE Cadmium-Regulated Genes from the Nematode Caenorhabditis elegans.
 Identification and cloning of new cadmium-responsive genes by
 differential display
 JOURNAL Unpublished (1998)
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FEATURES Location/Qualifiers
 source 1..356
 /organism="Caenorhabditis elegans"
 /strain="N2"
 /db_xref="taxon:6239"
 /clone="VL9"
 /clone_lib="mRNA from cadmium-responsive gene"
 /tissue_type="whole animal"
 /dev_stage="mixed population"

BASE COUNT 126 a 70 c 55 g 105 t

ORIGIN

1 caatcgatga gtatcctcgt acaattaatg catgatgcaa ttggaaatat tccgaggtag
 61 gtaaacggg gaacatcacg agatagatga atacagcgga tatcatatag gcacgcagaa
 121 tatcaataaa atttcaaat ttcaaaaata tcataacgat tataacacgt agcagggaat
 181 tttaagcca ctgaataaaa tatagaataa tatatacaga cacacacaat ctgatttca
 241 gaacatttc agtaacgacg ttgaacttt ttgaagatt tcgccgagcc ttgatcact
 301 ttgcagtc caactccac aactttctt tctctctct cctctacac gattgc

//

LOCUS AF071373 199 bp mRNA EST 30-JUN-1998
 DEFINITION AF071373 mRNA from cadmium-responsive gene Caenorhabditis elegans
 cDNA clone VL3A, mRNA sequence.

ACCESSION AF071373

NID g3265118

KEYWORDS EST.

SOURCE Caenorhabditis elegans.

ORGANISM Caenorhabditis elegans

Eukaryota; Metazoa; Nematoda; Secernentea; Rhabditia; Rhabditida;
 Rhabditina; Rhabditoidea; Rhabditidae; Peloderinae; Caenorhabditis.

REFERENCE 1 (bases 1 to 199)

AUTHORS Freedman, J.H. and Liao, H.-C.

TITLE Cadmium-Regulated Genes from the Nematode Caenorhabditis elegans.
 Identification and cloning of new cadmium-responsive genes by
 differential display

JOURNAL Unpublished (1998)

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09437450-111099

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FEATURES Location/Qualifiers
 source 1..199
 /organism="Caenorhabditis elegans"
 /strain="N2"
 /db_xref="taxon:6239"
 /clone="VL3A"
 /clone_lib="mRNA from cadmium-responsive gene"
 /tissue_type="whole animal"
 /dev_stage="mixed population"

BASE COUNT 55 a 31 c 20 g 93 t

ORIGIN

1 taaactctat gtttattgt ttttcaaat ttcaaattga aaattgaaac ttcaatttg
 61 attagagctt ttgtggttg actcctttt ttattgaac atcttttag tagtcatac
 121 tttgtatata acattacaa atgtgtttt gtaattatat gtaacaaatt tctatgtaca
 181 cctcatctca tctctctat

//

LOCUS AF071372 326 bp mRNA EST 30-JUN-1998
 DEFINITION AF071372 mRNA from cadmium-responsive gene *Caenorhabditis elegans*
 cDNA clone VL21A, mRNA sequence.

ACCESSION AF071372

NID g3265117

KEYWORDS EST.

SOURCE *Caenorhabditis elegans*.

ORGANISM *Caenorhabditis elegans*

Eukaryota; Metazoa; Nematoda; Secernentea; Rhabditia; Rhabditida;
 Rhabditina; Rhabditoidea; Rhabditidae; Peloderinae; *Caenorhabditis*.

REFERENCE 1 (bases 1 to 326)

AUTHORS Freedman, J.H. and Liao, H.-C.

TITLE Cadmium-Regulated Genes from the Nematode *Caenorhabditis elegans*.
 Identification and cloning of new cadmium-responsive genes by
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JOURNAL Unpublished (1998)

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FEATURES Location/Qualifiers
 source 1..326
 /organism="Caenorhabditis elegans"
 /strain="N2"
 /db_xref="taxon:6239"
 /clone="VL21A"
 /clone_lib="mRNA from cadmium-responsive gene"
 /tissue_type="whole animal"
 /dev_stage="mixed population"

BASE COUNT 76 a 61 c 59 g 130 t

09437450.11099

ORIGIN

1 cgtctccctt ttacttac tttaggtgc gtctgtcaa ttgtacgtac ttatattag
 61 caaacctctg gtgttacctc tgccttttg taaaattgt tacacacttt cttttggca
 121 gtaaaagttg tttagcacac ttaacactc tgccactacc aaggtaatag tgagcccatc
 181 gaggtttat aaatgcctt gatagttta agtgttgag gatcgagcta ctttgtagt
 241 ggaaagccgt gttctgtc ttgtttgt cgaatgatta cccaactatt tgatatttg
 301 attaccgga ttataata cacc

//

LOCUS AF071371 147 bp mRNA EST 30-JUN-1998
 DEFINITION AF071371 mRNA from cadmium-responsive gene *Caenorhabditis elegans*
 cDNA clone VL20B, mRNA sequence.

ACCESSION AF071371

NID g3265116

KEYWORDS EST.

SOURCE *Caenorhabditis elegans*.

ORGANISM *Caenorhabditis elegans*

Eukaryota; Metazoa; Nematoda; Secernentea; Rhabditia; Rhabditida;
 Rhabditina; Rhabditoidea; Rhabditidae; Peloderinae; *Caenorhabditis*.

REFERENCE 1 (bases 1 to 147)

AUTHORS Freedman, J.H. and Liao, H.-C.

TITLE Cadmium-Regulated Genes from the Nematode *Caenorhabditis elegans*.
 Identification and cloning of new cadmium-responsive genes by
 differential display

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FEATURES Location/Qualifiers

source 1..147
 /organism="Caenorhabditis elegans"
 /strain="N2"
 /db_xref="taxon:6239"
 /clone="VL20B"
 /clone_lib="mRNA from cadmium-responsive gene"
 /tissue_type="whole animal"
 /dev_stage="mixed population"

BASE COUNT 54 a 27 c 22 g 44 t

ORIGIN

1 tggcaatata ctagaaga gtaaatatta tgacgtggca ataatacaga agcagtcga
 61 actacaactc acgaacatt tgaagatt acctctgat tctttgaa tgtttgtc
 121 cacacaataa agaaaattct accgtac

//

LOCUS AF071370 285 bp mRNA EST 30-JUN-1998
 DEFINITION AF071370 mRNA from cadmium-responsive gene *Caenorhabditis elegans*
 cDNA clone VL19, mRNA sequence.

ACCESSION AF071370

NID g3265115

KEYWORDS EST.

SOURCE *Caenorhabditis elegans*.

0947450.11099

ORGANISM *Caenorhabditis elegans*
 Eukaryota; Metazoa; Nematoda; Secernentea; Rhabditia; Rhabditida;
 Rhabditina; Rhabditoidea; Rhabditidae; Peloderinae; *Caenorhabditis*.
 REFERENCE 1 (bases 1 to 285)
 AUTHORS Freedman, J.H. and Liao, H.-C.
 TITLE Cadmium-Regulated Genes from the Nematode *Caenorhabditis elegans*.
 Identification and cloning of new cadmium-responsive genes by
 differential display
 JOURNAL Unpublished (1998)
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FEATURES Location/Qualifiers
 source 1..285
 /organism="Caenorhabditis elegans"
 /strain="N2"
 /db_xref="taxon:6239"
 /clone="VL19"
 /clone_lib="mRNA from cadmium-responsive gene"
 /tissue_type="whole animal"
 /dev_stage="mixed population"

BASE COUNT 91 a 46 c 52 g 96 t

ORIGIN

1 cgtggcaata cacagaatat acacattgag atgggtcgaa tggcaaagag aaggtggtgg
 61 ctaatcattc tatatagcac aagcccaaat ataatttga tggcgaggaa ttgtgatgg
 121 tgaatggaat taacaaaatt ttctaaacgt cttcattccg agtaattttt cgtttccct
 181 ccacttttcg atttatattg ttctctaga aaaagtattt attgcatcgg gtgctcattg
 241 tctttgtga gaataataac tcgttcactt cccaaaaaaa aaaaa
 //

LOCUS AF071369 216 bp mRNA EST 30-JUN-1998
 DEFINITION AF071369 mRNA from cadmium-responsive gene *Caenorhabditis elegans*
 cDNA clone VL13, mRNA sequence.

ACCESSION AF071369

NID g3265114

KEYWORDS EST.

SOURCE *Caenorhabditis elegans*.

ORGANISM *Caenorhabditis elegans*
 Eukaryota; Metazoa; Nematoda; Secernentea; Rhabditia; Rhabditida;
 Rhabditina; Rhabditoidea; Rhabditidae; Peloderinae; *Caenorhabditis*.

REFERENCE 1 (bases 1 to 216)
 AUTHORS Freedman, J.H. and Liao, H.-C.
 TITLE Cadmium-Regulated Genes from the Nematode *Caenorhabditis elegans*.
 Identification and cloning of new cadmium-responsive genes by
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FEATURES Location/Qualifiers

source 1..216
 /organism="Caenorhabditis elegans"
 /strain="N2"
 /db_xref="taxon:6239"
 /clone="VL13"
 /clone_lib="mRNA from cadmium-responsive gene"
 /tissue_type="whole animal"
 /dev_stage="mixed population"

BASE COUNT 69 a 37 c 66 g 44 t

ORIGIN

1 tagcaagtcg gagacaaatg tgaatgcagt ggagacaagt gttgtgagaa gtactgctgt
 61 gaggaggcca gtgagaaaa atgctgtcca gctggatgta agggagactg caagtgtgca
 121 aactgtcatt gtgcagagca gaagcagtcg ggagacaaga cccatcaaca ccagggaact
 181 gctgcggctc attaaatgt ttcagagttg aatcta

//

LOCUS AF071368 142 bp mRNA EST 30-JUN-1998

DEFINITION AF071368 mRNA from cadmium-responsive gene *Caenorhabditis elegans*
 cDNA clone VL11, mRNA sequence.

ACCESSION AF071368

NID g3265113

KEYWORDS EST.

SOURCE *Caenorhabditis elegans*.

ORGANISM *Caenorhabditis elegans*

Eukaryota; Metazoa; Nematoda; Secernentea; Rhabditia; Rhabditida;
 Rhabditina; Rhabditoidea; Rhabditidae; Peloderinae; *Caenorhabditis*.

REFERENCE 1 (bases 1 to 142)

AUTHORS Freedman, J.H. and Liao, H.-C.

TITLE Cadmium-Regulated Genes from the Nematode *Caenorhabditis elegans*.
 Identification and cloning of new cadmium-responsive genes by
 differential display

JOURNAL Unpublished (1998)

COMMENT

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FEATURES Location/Qualifiers

source 1..142
 /organism="Caenorhabditis elegans"
 /strain="N2"
 /db_xref="taxon:6239"
 /clone="VL11"
 /clone_lib="mRNA from cadmium-responsive gene"
 /tissue_type="whole animal"
 /dev_stage="mixed population"

BASE COUNT 45 a 21 c 23 g 53 t

ORIGIN

1 gtgctggagt tgtttgtatt tcagaataaa taaaataaaa tatgattga gtagaatatt
 61 aaaataaagt ccttcacatt aaattatcaa ttgcttggcc tcgaatatct tccagctggt
 121 gattgcattc gtcattcct tc

09437450.1.1099


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FEATURES             Location/Qualifiers
    source             1..84
                        /organism="Caenorhabditis elegans"
                        /strain="N2"
                        /db_xref="taxon:6239"
                        /clone="VL10"
                        /clone_lib="mRNA from cadmium-responsive gene"
                        /tissue_type="whole animal"
                        /dev_stage="mixed population"
BASE COUNT            29 a    10 c    27 g    18 t
ORIGIN
      1 tagcaagtgc ggagacaaat gtgaatgcag tggagacaag tgttgtgaga agtactgctg
     61 tgaggattcc agtgagaaaa aatc

```

LOCUS AF071366 217 bp mRNA EST 30-JUN-1998
DEFINITION AF071366 mRNA from cadmium-responsive gene *Caenorhabditis elegans*
cDNA clone VL1, mRNA sequence.
ACCESSION AF071366
NID g3265111
KEYWORDS EST.
SOURCE *Caenorhabditis elegans*.
ORGANISM *Caenorhabditis elegans*
Eukaryota; Metazoa; Nematoda; Secernentea; Rhabditia; Rhabditida;
Rhabditina; Rhabditoidea; Rhabditidae; Peloderinae; *Caenorhabditis*.
REFERENCE 1 (bases 1 to 217)
AUTHORS Freedman, J.H. and Liao, H.-C.
TITLE Cadmium-Regulated Genes from the Nematode *Caenorhabditis elegans*.
Identification and cloning of new cadmium-responsive genes by
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JOURNAL Unpublished (1998)

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FEATURES Location/Qualifiers

source 1..217
/organism="Caenorhabditis elegans"
/strain="N2"
/db_xref="taxon:6239"
/clone="VL1"
/clone_lib="mRNA from cadmium-responsive gene"
/tissue_type="whole animal"
/dev_stage="mixed population"

BASE COUNT 69 a 37 c 67 g 44 t

ORIGIN

1 tagcaagtgc ggagacaaat gtgaatgcag tggagacaag tgtgtgaga agtactgctg
61 ttagggaggcc agtgagaaaa aatgctgtcc agctggatgt aaggaggact gcaagtgtgc
121 aaactgtcat tgtgcagagc agaagcagtg cggagacaag acccatcaac accagggaac
181 tgctgctgct cattaaaatg ttcagagtt gaatcta
//

LOCUS AF071365 292 bp mRNA EST 30-JUN-1998

DEFINITION AF071365 mRNA from cadmium-responsive gene *Caenorhabditis elegans*.

cDNA clone DDRT22, mRNA sequence.

ACCESSION AF071365

NID g3265110

KEYWORDS EST.

SOURCE *Caenorhabditis elegans*.

ORGANISM *Caenorhabditis elegans*

Eukaryota; Metazoa; Nematoda; Secernentea; Rhabditia; Rhabditida;
Rhabditina; Rhabditoidea; Rhabditidae; Peloderinae; *Caenorhabditis*.

REFERENCE 1 (bases 1 to 292)

AUTHORS Freedman, J.H. and Liao, H.-C.

TITLE Cadmium-Regulated Genes from the Nematode *Caenorhabditis elegans*.

Identification and cloning of new cadmium-responsive genes by
differential display

JOURNAL Unpublished (1998)

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FEATURES Location/Qualifiers

source 1..292
/organism="Caenorhabditis elegans"
/strain="N2"
/db_xref="taxon:6239"
/clone="DDRT22"
/clone_lib="mRNA from cadmium-responsive gene"
/tissue_type="whole animal"

09437450.11099

/dev_stage="mixed population"
 BASE COUNT 101 a 60 c 50 g 81 t
 ORIGIN

1 tggactcca cacggacaaa tacattagt ttacaagcc gccacgcgac acgcaacgcc
 61 gtaaatctac caaggtacaa caacaacatg tcaagcacag acccatatct tattgtgcg
 121 gaacgagatg gcctctactg tagtaatcga caattggact cttatccacc ggatcactta
 181 acctatttg atattaatat tcctattggg atcacagggt ttgcccgaag atgtaattat
 241 gaactgaatt gaaatgtatt ataaattagt tttattggg aaaaaaaaaa aa

//

LOCUS AF071364 188 bp mRNA EST 30-JUN-1998
 DEFINITION AF071364 mRNA from cadmium-responsive gene *Caenorhabditis elegans*
 cDNA clone DDRT21D, mRNA sequence.

ACCESSION AF071364

NID g3265109

KEYWORDS EST.

SOURCE *Caenorhabditis elegans*.

ORGANISM *Caenorhabditis elegans*

Eukaryota; Metazoa; Nematoda; Secernentea; Rhabditia; Rhabditida;
 Rhabditina; Rhabditoidea; Rhabditidae; Peloderinae; *Caenorhabditis*.

REFERENCE 1 (bases 1 to 188)

AUTHORS Freedman, J.H. and Liao, H.-C.

TITLE Cadmium-Regulated Genes from the Nematode *Caenorhabditis elegans*.
 Identification and cloning of new cadmium-responsive genes by
 differential display

JOURNAL Unpublished (1998)

COMMENT

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FEATURES Location/Qualifiers

source 1..188
 /organism="Caenorhabditis elegans"
 /strain="N2"
 /db_xref="taxon:6239"
 /clone="DDRT21D"
 /clone_lib="mRNA from cadmium-responsive gene"
 /tissue_type="whole animal"
 /dev_stage="mixed population"

BASE COUNT 44 a 31 c 51 g 62 t
 ORIGIN

1 tataggtaa gtgatccggt ggataagagt ccaattgtcg attactacag tagaggccat
 61 ctgcttccgc acaataaga tatgggtctg tgcttgacat gttgtgttg taccttggt
 121 agattacgg cagttgcgtg tcgttgccgg ctgtaaaac taaatgtatt ttccgtgtg
 181 gactacca

//

LOCUS AF071363 289 bp mRNA EST 30-JUN-1998
 DEFINITION AF071363 mRNA from cadmium-responsive gene *Caenorhabditis elegans*
 cDNA clone DDRT20, mRNA sequence.

ACCESSION AF071363

NID g3265108

650777-05442460

KEYWORDS EST.

SOURCE *Caenorhabditis elegans*.

ORGANISM *Caenorhabditis elegans*

Eukaryota; Metazoa; Nematoda; Secernentea; Rhabditia; Rhabditida;
Rhabditina; Rhabditoidea; Rhabditidae; Peloderinae; *Caenorhabditis*.

REFERENCE 1 (bases 1 to 289)

AUTHORS Freedman, J.H. and Liao, H.-C.

TITLE Cadmium-Regulated Genes from the Nematode *Caenorhabditis elegans*.

Identification and cloning of new cadmium-responsive genes by
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JOURNAL Unpublished (1998)

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FEATURES Location/Qualifiers

source 1..289
/organism="Caenorhabditis elegans"
/strain="N2"
/db_xref="taxon:6239"
/clone="DDRT20"
/clone_lib="mRNA from cadmium-responsive gene"
/tissue_type="whole animal"
/dev_stage="mixed population"

BASE COUNT 63 a 56 c 75 g 95 t

ORIGIN

1 tttttttt tttgtacat tatggcaaat ggaggcactg tctgggtccg tggggtcatg
61 gtgcattgga tcatgtgata tcctatcctg gcttctaate ccaatgcgtt tacagtcag
121 tgggcttgaa cgggcctagc tgagcttgga caaagttcct tgacagtacg ggctgacaag
181 ctgacagtc agaaattagg cactgtggg ctacaggtgc tcgtaattat ttgagagtt
241 ctgggcttcc ggactttac taggctaate taagacaact gggctctaa

//

LOCUS AF071362 214 bp mRNA EST 30-JUN-1998

DEFINITION AF071362 mRNA from cadmium-responsive gene *Caenorhabditis elegans*
cDNA clone DDRT2, mRNA sequence.

ACCESSION AF071362

NID g3265107

KEYWORDS EST.

SOURCE *Caenorhabditis elegans*.

ORGANISM *Caenorhabditis elegans*

Eukaryota; Metazoa; Nematoda; Secernentea; Rhabditia; Rhabditida;
Rhabditina; Rhabditoidea; Rhabditidae; Peloderinae; *Caenorhabditis*.

REFERENCE 1 (bases 1 to 214)

AUTHORS Freedman, J.H. and Liao, H.-C.

TITLE Cadmium-Regulated Genes from the Nematode *Caenorhabditis elegans*.

Identification and cloning of new cadmium-responsive genes by
differential display

JOURNAL Unpublished (1998)

COMMENT

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FEATURES Location/Qualifiers

source 1..214
/organism="Caenorhabditis elegans"
/strain="N2"
/db_xref="taxon:6239"
/clone="DDRT2"
/clone_lib="mRNA from cadmium-responsive gene"
/tissue_type="whole animal"
/dev_stage="mixed population"

BASE COUNT 77 a 37 c 40 g 60 t

ORIGIN

1 aaatcatggc ggcggatgca acagtctct caattggcaa ctgtctatat cattccgcaa
61 cacatttcgg atgtctcga aaaggacttc ccaaagttat tggagtactg tgaaagagtt
121 cgtcatgaag ttcccaaag gactttacta tgtgaattaa attgcaaac tagtagtcag
181 atcaataaaa tttacgtgg aaaaaaaaaa aaaa

//

LOCUS AF071361 322 bp mRNA EST 30-JUN-1998

DEFINITION AF071361 mRNA from cadmium-responsive gene *Caenorhabditis elegans*
cDNA clone DDRT19, mRNA sequence.

ACCESSION AF071361

NID g3265106

KEYWORDS EST.

SOURCE *Caenorhabditis elegans*.

ORGANISM *Caenorhabditis elegans*

Eukaryota; Metazoa; Nematoda; Secernentea; Rhabditia; Rhabditida;
Rhabditina; Rhabditoidea; Rhabditidae; Peloderinae; *Caenorhabditis*.

REFERENCE 1 (bases 1 to 322)

AUTHORS Freedman, J.H. and Liao, H.-C.

TITLE Cadmium-Regulated Genes from the Nematode *Caenorhabditis elegans*.
Identification and cloning of new cadmium-responsive genes by
differential display

JOURNAL Unpublished (1998)

COMMENT

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FEATURES Location/Qualifiers

source 1..322
/organism="Caenorhabditis elegans"
/strain="N2"
/db_xref="taxon:6239"
/clone="DDRT19"
/clone_lib="mRNA from cadmium-responsive gene"
/tissue_type="whole animal"
/dev_stage="mixed population"

BASE COUNT 102 a 77 c 70 g 73 t

ORIGIN

1 tagtgaccg tagagaagcc cagatattta aaatctaaag ggaaactgtt tgaccagaag

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61 attagagccc agttgtctta gatagcctag taaaagtccg gaagcccaga actctcaaaa
 121 taattacgag cacctgtagc ccacaagtgc ctaattctg actgtcaagc ttgtcgacct
 181 gtactgtcaa ggaactttgt caagctcagc taggcccggt caagcccaca tgactgtaaa
 241 cgattcgga ttagaagcca ggataggata tccatgatcc aatgcacat gaccacgga
 301 accagatgtg ctcattacat ag

//

LOCUS AF071360 228 bp mRNA EST 30-JUN-1998
 DEFINITION AF071360 mRNA from cadmium-responsive gene *Caenorhabditis elegans*
 cDNA clone DDRT18, mRNA sequence.

ACCESSION AF071360

NID g3265105

KEYWORDS EST.

SOURCE *Caenorhabditis elegans*.

ORGANISM *Caenorhabditis elegans*

Eukaryota; Metazoa; Nematoda; Secernentea; Rhabditia; Rhabditida;
 Rhabditina; Rhabditoidea; Rhabditidae; Peloderinae; *Caenorhabditis*.

REFERENCE 1 (bases 1 to 228)

AUTHORS Freedman, J.H. and Liao, H.-C.

TITLE Cadmium-Regulated Genes from the Nematode *Caenorhabditis elegans*.
 Identification and cloning of new cadmium-responsive genes by
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JOURNAL Unpublished (1998)

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FEATURES Location/Qualifiers

source 1..228
 /organism="Caenorhabditis elegans"
 /strain="N2"
 /db_xref="taxon:6239"
 /clone="DDRT18"
 /clone_lib="mRNA from cadmium-responsive gene"
 /tissue_type="whole animal"
 /dev_stage="mixed population"

BASE COUNT 70 a 49 c 20 g 89 t

ORIGIN

1 tttttttt ttccccatt catcacacac tatcatgttt tatattcaga cctattacct
 61 gtccagaaaa actgagctga aaaaatcccg gacgagcagc tccttcacat tcaaaatctt
 121 ccatacttc cccactcaat tcattgttt tgccttgat ttcaaatt ttgccttat
 181 tattttattg ctaaaattaag aaaactgtta ctttgcaaaa aaaaaaaa

//

LOCUS AF071359 255 bp mRNA EST 30-JUN-1998
 DEFINITION AF071359 mRNA from cadmium-responsive gene *Caenorhabditis elegans*
 cDNA clone DDRT1, mRNA sequence.

ACCESSION AF071359

NID g3265104

KEYWORDS EST.

SOURCE *Caenorhabditis elegans*.

ORGANISM *Caenorhabditis elegans*

09437450.1.1099

Eukaryota; Metazoa; Nematoda; Secernentea; Rhabditia; Rhabditida;
Rhabditina; Rhabditoidea; Rhabditidae; Peloderinae; Caenorhabditis.

REFERENCE 1 (bases 1 to 255)

AUTHORS Freedman, J.H. and Liao, H.-C.

TITLE Cadmium-Regulated Genes from the Nematode *Caenorhabditis elegans*.
Identification and cloning of new cadmium-responsive genes by
differential display

JOURNAL Unpublished (1998)

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FEATURES Location/Qualifiers

source 1..255
/organism="Caenorhabditis elegans"
/strain="N2"
/db_xref="taxon:6239"
/clone="DDRT1"
/clone_lib="mRNA from cadmium-responsive gene"
/tissue_type="whole animal"
/dev_stage="mixed population"

BASE COUNT 113 a 25 c 51 g 66 t

ORIGIN

1 atcattcaag aaagctatta tcagaaaaca taaatgacat agatcaagtg taaatcacat
61 atatataaag tggataaata tatatagtta aacggataag gaaattaatt aatgaatttt
121 gaaactggca gcgaaggatg aacagggaaa ggcacatgtt aaaataaatg aatgtgtata
181 attcgtgaa gagttagtta tgtaggtga tggcagccat gcagaatgag ccattgttcc
241 gaaaaaaaaa aaaaaa

//

LOCUS AF071358 433 bp mRNA EST 30-JUN-1998

DEFINITION AF071358 mRNA from cadmium-responsive gene *Caenorhabditis elegans*
cDNA clone DDRT17, mRNA sequence.

ACCESSION AF071358

NID g3265103

KEYWORDS EST.

SOURCE *Caenorhabditis elegans*.

ORGANISM *Caenorhabditis elegans*

Eukaryota; Metazoa; Nematoda; Secernentea; Rhabditia; Rhabditida;
Rhabditina; Rhabditoidea; Rhabditidae; Peloderinae; *Caenorhabditis*.

REFERENCE 1 (bases 1 to 433)

AUTHORS Freedman, J.H. and Liao, H.-C.

TITLE Cadmium-Regulated Genes from the Nematode *Caenorhabditis elegans*.
Identification and cloning of new cadmium-responsive genes by
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JOURNAL Unpublished (1998)

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0047450-11099

FEATURES Location/Qualifiers
 source 1..433
 /organism="Caenorhabditis elegans"
 /strain="N2"
 /db_xref="taxon:6239"
 /clone="DDRT17"
 /clone_lib="mRNA from cadmium-responsive gene"
 /tissue_type="whole animal"
 /dev_stage="mixed population"

BASE COUNT 149 a 63 c 83 g 138 t

ORIGIN

1 tgggtactaag ggccaataac tgagctttg cacggcggca tcaatgataa agagaaacta
 61 ttttgacgg ttaaaataac caaatttaca cggcgagtc aatcaaaaat tctcatctgg
 121 aacagcaaag tacatcggag aattgctgga aggaagcact gatgaaacta aattaactgc
 181 tggatgcata ggaaaaacgt caagattgac gtggagtgg agagaaggac tatgtttgga
 241 tggttactaa gattttgtta ctggtgacaa taaggacatc actttttaa ctaacttaa
 301 tctttttta cttttttct tctgaattaa ttgttttta aggcgaattc tatgtttcag
 361 aatttatta cgttgtctt tcatgttta attgtaaag taagcaattt ttccaccgta
 421 aaaaaaaaaa aaa

//

LOCUS AF071357 933 bp mRNA EST 30-JUN-1998
 DEFINITION AF071357 mRNA from cadmium-responsive gene Caenorhabditis elegans
 cDNA clone DDRT16FC, mRNA sequence.

ACCESSION AF071357

NID g3265102

KEYWORDS EST.

SOURCE Caenorhabditis elegans.

ORGANISM Caenorhabditis elegans

Eukaryota; Metazoa; Nematoda; Secernentea; Rhabditia; Rhabditida;
 Rhabditina; Rhabditoidea; Rhabditidae; Peloderinae; Caenorhabditis.

REFERENCE 1 (bases 1 to 933)

AUTHORS Freedman,J.H. and Liao,H.-C.

TITLE Cadmium-Regulated Genes from the Nematode Caenorhabditis elegans.
 Identification and cloning of new cadmium-responsive genes by
 differential display

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FEATURES Location/Qualifiers

source 1..933
 /organism="Caenorhabditis elegans"
 /strain="N2"
 /db_xref="taxon:6239"
 /clone="DDRT16FC"
 /clone_lib="mRNA from cadmium-responsive gene"
 /tissue_type="whole animal"
 /dev_stage="mixed population"

BASE COUNT 275 a 190 c 171 g 297 t

ORIGIN


```

1 catgcatctt tttttttt ttttttta ctgtctcaag tatgttggat tcatgtttga
61 ttattactgc tgcgctgttt ggagccgctg tcatttactt gaaaaatttc ttcactgttc
121 ctaccattaa accaaaaacct gatattcaca aaaaagacta caaaaaggat gtagtctatc
181 tgtatcatgat gaagagactc aagaactgtc cgaactgttc cctttctgc atgaaaatcg
241 agattctttg tagaatcttc aagattcctt acgagattat cacatgcacc tctgaacgct
301 ctcggaatgg attggtcctt ttcgtgaac tcaatggaga gcacattgct gattctgac
361 ttatcgaaat gcgcttgaga tcacatttta aaattccgtc gcttccaact gagctggaaa
421 ctcaatctgt tgccttaagc aagtttgag atcaccattt gttcttcgta cttatacgat
481 ttaaaattgc tctgcacgaa ttctacaaaa ccattatcga aataatcggg ctcccaacct
541 tcttgaattt ccttctcatg ccccttttga aggctataat cgggaaaaat gtctacaaca
601 aatgtcaggg agccattgga gattttgaat tgagtgaact cgacgagatt cttcacagag
661 atttgcgaat cgtagagaac accttgacca agaaaaagt tctttcggg gaggaaatca
721 cggcgccgga tgcaacagtc ttcttcaat tggcaactgt ctattatcca ttccgcaatc
781 acatttcgga tgttctgaa aaggacttcc caaagttatt ggagtactgt gaaagagttc
841 gtcataagt ttacccaag gactttacta tgtgaattaa attgtcaaac tagtagtcag
901 atcaataaaa ttctacgtgg caaaaaaaaa aaa

```

//

LOCUS AF071356 238 bp mRNA EST 30-JUN-1998
 DEFINITION AF071356 mRNA from cadmium-responsive gene *Caenorhabditis elegans*
 cDNA clone DDRT16, mRNA sequence.
 ACCESSION AF071356
 NID g3265101
 KEYWORDS EST.
 SOURCE *Caenorhabditis elegans*.
 ORGANISM *Caenorhabditis elegans*
 Eukaryota; Metazoa; Nematoda; Secernentea; Rhabditia; Rhabditida;
 Rhabditina; Rhabditoidea; Rhabditidae; Peloderinae; *Caenorhabditis*.
 REFERENCE 1 (bases 1 to 238)
 AUTHORS Freedman, J.H. and Liao, H.-C.
 TITLE Cadmium-Regulated Genes from the Nematode *Caenorhabditis elegans*.
 Identification and cloning of new cadmium-responsive genes by
 differential display
 JOURNAL Unpublished (1998)
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FEATURES Location/Qualifiers
 source 1..238
 /organism="Caenorhabditis elegans"
 /strain="N2"
 /db_xref="taxon:6239"
 /clone="DDRT16"
 /clone_lib="mRNA from cadmium-responsive gene"
 /tissue_type="whole animal"
 /dev_stage="mixed population"

BASE COUNT 77 a 42 c 45 g 74 t

ORIGIN

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1 tttttttt ttgggagga aatcacggcg gcggatgcaa cagtcttctc tcaattggca
61 actgtctatt atccattccg caatcacatt tcggatgttc tcgaaaagga ctcccaaag
121 ttattggagt actgtgaaag agttcgtcat gaagtttacc caaggactt tactatgtga

```

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181 attaaattgt caaactagta gtcagatcaa taaaattcta cgtggcaaaa aaaaaaaa

//

LOCUS AF071355 248 bp mRNA EST 30-JUN-1998

DEFINITION AF071355 mRNA from cadmium-responsive gene *Caenorhabditis elegans*

cDNA clone DDRT15, mRNA sequence.

ACCESSION AF071355

NID g3265100

KEYWORDS EST.

SOURCE *Caenorhabditis elegans*.

ORGANISM *Caenorhabditis elegans*

Eukaryota; Metazoa; Nematoda; Secernentea; Rhabditia; Rhabditida;

Rhabditina; Rhabditoidea; Rhabditidae; Peloderinae; *Caenorhabditis*.

REFERENCE 1 (bases 1 to 248)

AUTHORS Freedman, J.H. and Liao, H.-C.

TITLE Cadmium-Regulated Genes from the Nematode *Caenorhabditis elegans*.

Identification and cloning of new cadmium-responsive genes by differential display

JOURNAL Unpublished (1998)

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FEATURES Location/Qualifiers

source 1..248

/organism="Caenorhabditis elegans"

/strain="N2"

/db_xref="taxon:6239"

/clone="DDRT15"

/clone_lib="mRNA from cadmium-responsive gene"

/tissue_type="whole animal"

/dev_stage="mixed population"

BASE COUNT 67 a 46 c 31 g 104 t

ORIGIN

1 tttttttt ttgcgatgt tgtaatacta atatttatta attttcttta attttctttg

61 ttaagtttgt atttataggt tggtagatt ttttgcctg taattttgca actgtgattc

121 atgtatgtac tatatgaacc gaaacccct cccgtcatat acaacagtta gtaaacatt

181 ttaatcccat atttctcatt cccaacactt ttacaggttt tgcacagca gcagcagtc

241 aaacacaa

//

LOCUS AF071354 226 bp mRNA EST 30-JUN-1998

DEFINITION AF071354 mRNA from cadmium-responsive gene *Caenorhabditis elegans*

cDNA clone DDRT12, mRNA sequence.

ACCESSION AF071354

NID g3265099

KEYWORDS EST.

SOURCE *Caenorhabditis elegans*.

ORGANISM *Caenorhabditis elegans*

Eukaryota; Metazoa; Nematoda; Secernentea; Rhabditia; Rhabditida;

Rhabditina; Rhabditoidea; Rhabditidae; Peloderinae; *Caenorhabditis*.

REFERENCE 1 (bases 1 to 226)

09437450.11000

AUTHORS Freedman,J.H. and Liao,H.-C.

TITLE Cadmium-Regulated Genes from the Nematode *Caenorhabditis elegans*.
Identification and cloning of new cadmium-responsive genes by
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JOURNAL Unpublished (1998)

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FEATURES Location/Qualifiers

source 1..226
/organism="Caenorhabditis elegans"
/strain="N2"
/db_xref="taxon:6239"
/clone="DDRT12"
/clone_lib="mRNA from cadmium-responsive gene"
/tissue_type="whole animal"
/dev_stage="mixed population"

BASE COUNT 68 a 38 c 35 g 85 t

ORIGIN

1 tttttttt tttgtaaca aagaactgag cactctatgg tttatcaagt ctatatgtat
61 ccgtgatgcc tactgtatcg tacatccatc tcgatcgtaa tgcattattg atcatgagtt
121 cccaaaggtc ttaatcttga caaagggtgca atagatatat atccttattt ggcactatat
181 atatgttcag aattatgact gatcgataca tatgatcaaa gttaca
//

LOCUS AF071353 212 bp mRNA EST 30-JUN-1998

DEFINITION AF071353 mRNA from cadmium-responsive gene *Caenorhabditis elegans*
cDNA clone DDRT10, mRNA sequence.

ACCESSION AF071353

NID g3265098

KEYWORDS EST.

SOURCE *Caenorhabditis elegans*.

ORGANISM *Caenorhabditis elegans*

Eukaryota; Metazoa; Nematoda; Secernentea; Rhabditia; Rhabditida;
Rhabditina; Rhabditoidea; Rhabditidae; Peloderinae; *Caenorhabditis*.

REFERENCE 1 (bases 1 to 212)

AUTHORS Freedman,J.H. and Liao,H.-C.

TITLE Cadmium-Regulated Genes from the Nematode *Caenorhabditis elegans*.
Identification and cloning of new cadmium-responsive genes by
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JOURNAL Unpublished (1998)

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FEATURES Location/Qualifiers

source 1..212
/organism="Caenorhabditis elegans"
/strain="N2"

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/db_xref="taxon:6239"
/clone="DDRT10"
/clone_lib="mRNA from cadmium-responsive gene"
/tissue_type="whole animal"
/dev_stage="mixed population"

BASE COUNT 68 a 35 c 34 g 75 t

ORIGIN

1 ttcgatacag gaactacatt tacatctgtt tcaacatata aacaatacat aacataactca
61 atccttcagg ctctgaagga ttttgagtc gatatactgt aacaagctcg ggaaacataa
121 gtacatttt tggagctatc ttttatgtt gcgcttttct ttgtctctt tgaatgagtt
181 ttgaaatgaa ttgtctgtgc aaaaaaaaaa aa

//

09437450-11099